

## **REMARKS**

It is believed that a fee of \$750.00 is required in connection with this amendment. The Commissioner is hereby authorized to charge said fees under 37 C.F.R. §§ 1.16 to 1.21 which may be required for any reason relating to this document, or credit any overpayment to Advanced Micro Devices, Inc. Deposit Account No. 01-0365/TT4352. In the event the monies in that account are insufficient, the Commissioner is authorized to withdraw funds from Williams, Morgan & Amerson, P.C. Deposit Account No. 50-0786/2000.070882. If any other fees are required for any reason, the Commissioner is authorized to deduct any fees required under 37 C.F.R. §§ 1.16 to 1.21 from the Advanced Micro Devices, Inc. Deposit Account No. 01-0365/TT4025. In the event the monies in that account are insufficient, the Assistant Commissioner is authorized to withdraw funds from Williams, Morgan & Amerson, P.C. Deposit Account No. 50-0786/2000.052900.

A Notice of Allowance was issued on May 5, 2003 in the parent application (Serial No. 09/624,847) to the present application, allowing claims 1-17 and 22-32.

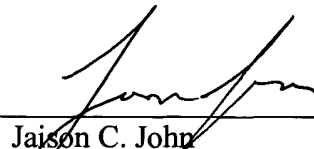
Applicants respectfully assert that originally filed claims 18-21 and newly added claims 33-37 are allowable over prior art. The concept of acquiring metrology data relating to processing of a semiconductor wafer in said processing tool, assessing from a reference library comprising optical data relating to a poly-silicon formation on a semiconductor wafer, comparing said metrology data to data from said reference library, and performing a fault-detection analysis in response to the comparison, which are called for by independent claims 18, 33, and 35 are novel over prior art. Accordingly, claims 18 (as amended), 33 and 35 are allowable. Additionally, dependent claims 19-21(as amended) and claim 34, which depend from

claim 33 and dependent claims 36-37, which depend from claim 35 are also allowable for at least the reasons cited above. Therefore, Applicants respectfully submit that claims 18-21 and 33-37 are in condition for allowance and Applicants respectfully request a Notice of Allowance.

The Examiner is invited to contact the undersigned attorney at (713) 934-4069 with any questions, comments or suggestions relating to the referenced patent application.

Respectfully submitted,

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